#### P070-07610

#### ADDENDUM NUMBER 1

OAK LEAF TRAIL OZAUKEE INTERURBAN / KOHL PARK CONNECTOR Milwaukee, WI

Project Number: P070-07610 WisDOT Project I.D. 2972-07-70

Date of Addendum: March 25, 2011

This Addendum to the Contract Documents is issued to modify, explain or correct the original documents, dated November 23, 2010, and is hereby made part of the Contract Documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form, or bid may be rejected.

# SECTION 02890 - PRE-FABRICATED BRIDGES

Delete Part 2.2 Materials, Paragraph C and replace with:

Wood Decking and Attachments: West Coast Region Douglas Fir or Southern Yellow Pine. Decking shall be treated to AWPA standards. Preservative utilized shall be AWPA treatment C2, using water borne preservative. Decking shall be treated to a total absorption of 0.40 pounds per cubic foot of wood or to refusal. Rub rail shall be made of the same material.

## SAFETY RAIL

Sheet 32 of 67 of Plan Set

<u>Delete</u> "Vertical Pickets Spaced at 4" On Center" and <u>replace with</u> "Horizontal Safety Rail Spaced 4" On Center".

## SAFETY RAIL

Sheet 38 of 67 of Plan Set

<u>Delete</u> "Vertical Pickets Spaced at 4" On Center" and <u>replace with</u> "Horizontal Safety Rail Spaced 4" On Center".

#### **BORING LOGS**

Sheet 37 of 67 and Sheet 42 of 67 of the Boring Logs are difficult to read. The boring logs from the geotechnical report are included with this addendum. The entire Geotechnical Report is available for review at Milwaukee County, City Campus, 2711 W. Wells Street, Milwaukee, WI 53208.

End of Addendum No. 1

## LOG OF TEST BORING

#### GENERAL NOTES

## **Descriptive Soil Classification**

#### GRAIN SIZE TERMINOLOGY

Soil Fraction	Particle Size	U.S. Standard Sieve Size
Boulders	Larger than 12"	Larger than 12"
Cobbles	3" to 12"	3" to 12"
Gravel: Coarse	3/4" to 3"	3/4" to 3"
Fine	4.78mm to 3/4"	#4 to 3/4"
Sand: Coarse	2.00mm to 4.78n	ım#10 to #4
Medium	0.42mm to 2.00n	nm#40 to #10
Fine	0.074mm to 0.42	mm#200 to #40
Silt	0.005mm to 0.07	4mmSmaller than #200
Clay	Smaller than 0.00	5mmSmaller than #200
*Plasticity chara	cteristics differenti	ate between silts and clay.

#### GENERAL TERMINOLOGY

Physical Characteristics: Color, moisture, grain shape, fineness, etc. Major Constituents: Clay, silt, sand, gravel Structure: Laminated, varved, fibrous, stratified, cemented, fissured, etc. Geologic Origin: Glacial, alluvial, solian, residual, etc.

#### ORGANIC CONTENT BY COMBUSTION METHOD

Soil Description	Loss on Ignition
Non Organic	Less than 4%
Organic Silt/Clay	4-12%
Sedimentary Peat	12-50%
Fibrous and Woody Peat	More than 50%

#### CONSISTENCY

### PLASTICITY

Soft	Medium0.50 to 1.0 Stiff1.0 to 2.0 Very Stiff2.0 to 4.0	Term Plastic Index None to Slight
------	--	-----------------------------------

## RELATIVE PROPORTIONS OF COHESIONLESS SOILS RELATIVE DENSITY

Terin I Trace Little Some	Percentage of Weight 	Term Very Loose Loose Medium Dense Dense	0-4 4-10 e10-30 30-50
	35% - 50%	Very Dense	

## **Symbols**

#### DRILLING AND SAMPLING

CS-Continuous Sampling RC-Rock Coring: Size AW, BW, NW, 2"W RQD-Rock Quality Designator RB-Rock Bit FT-Fish Tail DC-Drove Casing C-Casing: Size 2.5", NW, 4", HW CW-Clear Water DM-Drilling Mud HSA-Hollow Stem Auger FA-Flight Auger HA-Hand Auger COA-Clean-Out Auger SS-2" Diameter Split-Barrel Sample ST2-2" Diameter Thin-Walled Tube Sample ST-3" Diameter Thin-Walled Tube Sample PT-3" Diameter Piston Tube Sample AS-Auger Sample WS-Wash Sample GP- 2" Geoprobe Tube Sample PTS-Peat Sample PS-Pitcher Sample GRAB-Grab Sample NR-No Recovery M- Observed Moist Soil Conditions S- Observed Saturated Soil Conditions W- Observed Wet Soil Conditions SO-Sounding PMT-Borehole Pressuremeter Test VS-Vane Shear Test WPT-Water Pressure Test

### LABORATORY TESTS

qu -Penetrometer Reading, tons/sq. ft. Qu -Unconfined Strength, tons/sq. ft. W-Moisture Content, % LL-Liquid Limit, % PL-Plastic Limit. % SL-Shrinkage Limit, % LI-Loss on Ignition, %
D-Dry Unit Weight, lbs./cu. ft.
pH-Measure of Soil Alkalinity or Acidity FS-Free Swell, %

#### WATER LEVEL MEASUREMENT

-Water Level at time shown NW-No Water Encountered WD-While Drilling BCR-Before Casing Removal ACR-After Casing Removal CW-Caved and Wet CM-Caved and Moist

State of Wisconsin	
Department of Natural	Resources

## SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

			Rout	e To:			astewater Revelopme													
							•	<del>_</del>								Page	1	of		
Facility	/Proje	ct Na	me		**				Licens	e/Pern	nit/Mo	nitorir	ıg Num	ber .	Boring	Numi	er			
Oak	Leaf T	rail -	Green	Bay Ro	l. & Teute	oni				B-1										
Boring	Drille me: K	d By:	Name		ew chief ( Name: H	first, l	ast) and Fi	m	Date I	_				_	_		Drilling Method			
			ngineer		rvices, Inc	C.			$\frac{07}{m}$	$\frac{24}{d}$	, <u>200</u> 7	$\frac{\mathbf{y}}{\mathbf{y}} = \mathbf{y}$	<del>                                    </del>	$\frac{24}{d}$	<u> </u>	$\frac{y}{y} = \frac{y}{y}$	hollow stem auger			
WI Un					Well ID 1		Well Nam	e		Static V			Surfac	e Eleva	ation		Borehole Diameter			
							<u> </u>		<u> </u>		Feet M			8.43			8	in	ches	
Local Grid Origin ☐ (estimated: ☐ ) or Boring Location XI O , " Local Grid Location State Plane N, E C Lat ☐ N ☐ E												- 1C								
							N, R 2	_	Lor	10	, ٥	11		F	eet □			Feet!		
Facilit			277 02	0000	County			C	County C		Civil '	Town	City/ o			~ =				
MILWAUKEE 41 Brown Deer																				
Sam			ace)												Soil I	rope	rties			
	Length Att. & Recovered (in)	nts	Depth in Feet (Below ground surface)				ck Descript							V.					s	
ype	h Ai	S	in diameter		An		logic Origir Major Unit			CS	. <u>.</u> 2	뛽	₽	cssi	a m	75	ity		nent	
Number and Type	Length Att. Recovered (i	Blow Counts	Pth Sew			Laci	144ajor Cili	•		တ	Graphic	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
		181	Δĕ								2 2 2 3	2 0	1 -	ည်လ		11	P T	d.	<b>∝</b> ∪	
1 SS	6	10	F	0.0			OIL - medion of sand with the			то	1				11.4					
			$E_2$			organ				÷	100		1							
2.00	, '	.,	F_	$\frac{\sqrt{2.5}}{\sqrt{3.0}}$	- 3.0 - 5.0	CANID	Y CLAY (C	T) voru e	11:00	то			'	3.5	20.3					
2 SS	3	11	Ε <sub>4</sub>	3.0			ı, moist, tra			TO	V//	7	1	3.3	20.5					
3 SS	10	9	E	<b>√</b> 5.0	-,7.5						V//	1		3.5	20					
3 33	110	,	F	3.0	-9/.5				•	CL	1777	7		J						
			E,									4				1		]		
		]	F.	<u> 7.5</u>	- 8.0					٠	100	1	l		l					
4 SS	12	26	E	ا <sub>8.0</sub>	- 10.0	SILT tan, n	Y SAND (SI	M) - mediu	m dense,	CL SM	N/f	<u>I</u> l			13.3		1	42.1		
		1									╽┋╅╅	]	1							
			F 10		0 - 11.0	_			'	SM	<b>∐</b> ‡‡									
5 SS	14	14	E	V 11.0	0 - 12.5		OY SILT (M moist to sat		m dense	, ML	11	11			20				Saturated at 12.33'	
6 SS	16	12	<b>⊢</b> 12	/ 12.5	5 - 15.0	gruj,	moist to out	- DI UI U		_					20.8					
0.00	1	~~	F							ML	-									
			E 14											ł						
			F		0 - 15.5					Y ML					1,2,2		İ			
7 SS	16	16	E 16	۲ 15.	5 - 17.5	SANI	D (SW) - me ated, mediu	edium dense im to fine	e, gray,	Sw		,		1	12.3					
	1	1		ا	- 100	grain	ed sand, so	me gray sil	<u>t</u>	()	200	•						1	:	
8 SS	16	18	<b>—</b> 18		5 - 18.0 0 - 20.0	SILT	Y SAND (S	M) - mediu	ım dense	, sw					10.5	15	9	49.8		
	~ ~		E			gray,	, saturated,	trace grave	ો	SM	l <del>l</del> I I	$\parallel$		1			ŀ	1		
			<b></b> = 20	$\int 20.$	.0 - 20.5					Ц	╽┩┆┆	<u>†</u>								
9 SS	18	54	E		.5 - 22.5	SAN	DY CLAY (	(CL) - very	stiff to	Y SM CL	12%	2		1	13.3					
			$E_{22}$	.		naro	, gray, mois	a, some sm		"		4	1					İ		
		1	=								1//	4						}		
			E 24											1						
I ham	by co	rtifs. :			mation	on this	s form is tr	ue and co	rrect to	the be	el of	nv te	owled	ore	-1	<del>'</del>		I	<u> </u>	
Signa		illy	uiat til	- 111101	mauon (	ALL FILLS	2 101111 19 11	uc and co	Firm											
										K. S	INGH	& AS	SOCIA	TES, I	NC.					

Facility/Project Name: Oak Leaf Trail - Green Bay Rd. & Teutonia Ave. Bridge License/Project/Monitoring No. :

Boring No. : B-1 WI Unique Well No. :

Page 2 of \_\_\_\_

	nple	D-1				1	Oniqu	e wen	110			Soil	roper	ties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet		Soil/Rock Description And Geologic Origin For Each Major Unit		nscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content		Plasticity Index	P 200	RQD/ Comments
10 SS	18	47	E	22.5	- 25.0	丬	CL	11/1			4.5	15.4				
			24													
11 SS	14	47	E	25.0	- 30.0	ᅰ	CL				3	15				
			$=^{26}$						1							
			=_28													
			E												:	
12 SS	10	32	30	30.0	- 35.0	$\neg$	CL				4.3	16.6				
			E ,,													
			= 32													
			34						]							
			E	35.0	- 36.0 End of borchole at 35 feet. Borchole abandoned with 4 bag of bentonite chips.	-\ s		1//								
			36		of bentonite chips.											
			E													
			E	,												
			E													
			F													
			E													
			E									Ì				
			E													
			F													
			E													
			E													
			E													
			E													
			E													
			E													
																<u> </u>

State of Wisconsin Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Rou	e To:				ater 🔲 ,													
								-	-	_							Расе	: 1	of		
Facilit							<del></del>			License/Permit/Monitoring Number Boring Number											
					d. & Te	utoni f (first,	last) ar	nd Firm		B-2     Date Drilling Started   Date Drilling Completed   Drilling Method											
	ame: K				Name: H		iust) u	10 1 11111			, 24			ì			-	תוווח	ing Method		
					rvices, I		1000			m m	d d	уу	УУ	mm	$\frac{07}{m} / \frac{24}{d} / \frac{2008}{y} = $				hollow stem auger		
WI Ur	uque v	well iv	*°·	DNK	Well II	) No.	Well	Name		Final :	Static \	Vater Feet l		Surfa 6	ce Elev 56.46	ation Feet	MST.	Borehole Diameter 8 inches			
Local State F	Grid C					or Bo	ring Lo	cation X	ì	<u> </u>		0	1 1		Grid L			<u></u>	icies		
	_		1/4 of		_ N 12	_, T_8	R NT	E ъ 21	E	Lor	al	0	1 1	-					□ E Feet□ W		
Facilit	y ID		1/4 01	SCHO	County	_ <u>,                                   </u>	<u></u>	<u> </u>		ounty C		Civil	Town	· ] /City/ c		eet 🗖	12 _		_ reet	uw	
	_		<del>,</del>			MIL	WAU	KEE	_   _	<sup>41</sup> _						В	rown L	)eer			
Sam			rface)													Soil	Prope	rties			
	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)					cription brigin For							ive					ন	
Number and Type	Length Att. Recovered ()	ပိ	th in w				Major				CS	hic		PID/FID	press	sture ent	'E.E.	icity	0	)/ men	
Nurand	Rec	Blo	9.6 9.8								n s	Graphic Log	Well	8	Compressive Strength	Moisture Content	Liquid	Plasticity Index	P 200	RQD/ Comments	
1 SS	12	7	E	0.0	- 2.5			oose, brow		ist,	то	10 JUNE									
			$E_2$			fine sa	and wit	h some gra	ivel						1						
2 SS	14	13	= ~	$\frac{2.5}{3.0}$	- 3.0 - 5.0	CH T	VCANI	) (SM) - m	odium	danca	то					21.3					
2, 00	17	"	$E_4$	5.0	- 5.0	tan, n		) (GIVI) - III	caram	dense,	SM	+ † †		l		21.5					
			E	/ 5.0h	- 6.6					-		$\lVert \cdot  Vert$									
	ļ		<b>–</b> 6	ļ							SM	$\ \cdot\ $									
3 SS	14	I1	F	6.6	- 7.5			loose to m moist to sa			ML	1	1			14.1				saturated at 7.3'	
4 SS	10	5	E 8	7.5	- 10.0	some	fine sar				ML					23.9		}			
			E	'	10.0											23.7					
5 SS	12	8	= 10	10.0	- 12.5	i		·			ML					26.5					
			E																		
			E 12	12.5	5 - 14.5	5				$\overline{}$											
			12								ML										
6 SS	10	17	F 14	J 14.5	5 - 15.0	SILT	Y SAN	D (SM) - n	nediun	dense,		$\  \  \ $				19.5					
			E 16	15.0	0 - 15.5		satura	ted, trace p	ravel	/	SM										
	ļ		F	15.5	5 - 16.5	SANI	D (SW) ated. m	- medium edium to f	dense, ine	gray,	SW										
7 SS	16	14	16	h 16	= 17:	grain	ed sand				CL	閯	<u>}</u>			1,,					
	1	1	E	16.3	5 - 17.5	grav,	satura	ted, trace g	gravel				4			11.8					
8 SS		27	E <sub>20</sub>	17.5	5 - 20.0	to ver		AY (CL) - 1 gray, mois		m stiff		W,	4		4	15.1					
9 SS	18	39	E	20.0	0 - 22.5	5					CL	1/	1		2.7	19.1					
			_ 22										4						ĺ		
				1							-	ľ .							1		
			<del>-</del> 24															<u></u>			
		rtify t	hat the	infor	mation	on this	form	is true and	d com		he bes	st of 1	ny kn	owled	ge.						
Signa	ure									Firm	K. SI	NGH	& AS	SOCIA'	res, in	IC.					

Facility/Project Name: Oak Leaf Trail - Green Bay Rd. & Teutonia Ave. Bridge License/Project/Monitoring No. :

Boring No. : B-2

WI Unique Well No. :

Page \_2\_\_ of \_\_\_\_

Boring No. :	B-2		W	1 Oniq	ue Well	NO. :	I		Call	roper	tion		
Number and Type Bar Length Att. & Gar Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	uscs	Graphic	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity n	P 200	RQD/ Comments
10 SS 18	46	22	22.5 - 25.0	CL				0.7	20.6				
11 SS 16	32	24	25.0 - 30.0	CL				3.7	12.4				
12 SS 14	42	28 30 32	30.0 - 35.0	CL					10.2	21	12	69	
			35.0 - 36.0 End of borehoe at 35 feet. Borehole abandoned with 2.5 sacks of chipped bentonite.										

State of Wisconsin	
Department of Natural	Resources

# SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

			Route	To:			/astewater   /Revelopment [			ment			<u>.</u>						
							•									Page	1	of	
Facility									Licens	e/Perm	it/Mo	nitorin	g Num	ber ]	Boring	Numt		~	
Oak	Leaf T	rail - l	Brown :	Deer V	/illage Pa	rk	leat) and Firm		D-1- D	Date Drilling Started Date Drilling Completed Drilling Method									
First Na	me: K			Last 1	Name: H		last) and Firm		07,	$\frac{24}{d}$	2008	3	$\frac{07}{m} / \frac{24}{d} / \frac{2008}{y} = \frac{3}{y}$				hollow stem auger		
Firm: Soils and Engineering Services, Inc. WI Unique Well No. DNR Well ID No. Well Name							Final S	Static V		evel	Surface Elevation 648.54 Feet MSL				Borehole Diameter  8inches				
State P	lane				_ N,		ring Location E		L	ai	0 '	11	Local			N	ΠE		
		SE	1/4 of	Sectio	n 2	, T_	8_N, R <u>21</u>	_ E	Lon	g			City/ or		eet 🗖	<u>s</u> _		Feet	J W
Facility	y ID				County	MIL	WAUKEE	-	ountv C 41_	ode —	Civii	I own/	City/ or	V III BŲ		own D	eer		
Sam	ple		(e)		<b></b>										Soil I	rope	rties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	į		nd Geo	ock Description blogic Origin Fo n Major Unit	o <b>t</b>		uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	4	9	E	0.0	- 2.5	TOP:	SOIL - loose, bro	own, mo	ist,	то					12.9				
2 SS	18	10	2 1 4	$\int \frac{2.5}{3.0}$	- 3.0 - 5.0	to ve	Y CLAY (CL) - ry stiff to very st n, moist, trace p	tiff,	n stiff	TO CL				2.9	19.6				_
3 SS	18	7	E 6	<b>√</b> 5.0	n- 7.5				1	CL				1.7	26.3	38	15	99.5	groundwater at 6'2".
4 SS	18	6	E	<i>√</i> 7.5	- 10.0			<u></u>		CL				2.3	26.7				
5 SS	18	7	E10		0 - 12.5					CL				2	24.3				
6 SS	18	7	12	J 12	.5 - 15.0				`	Cr				0.7	19.9				
7 SS	12	22	E 16		.0 - 17.5		1 amay 1 47	****		CL				0.9	15.6				
8 SS	5 18	6	E <sub>18</sub>	J 17	.5 - 20.0	)				CT				1	17.4				
9 SS	5 16	16	222		0.0 - 22.	5				CI				2	11.5	5			
			E 24	4															
I her	eby ce	rtify			rmation	on th	is form is true	and co	rrect to	the b	est of	my kı	nowled	ge.					
	ature								Fim	1			SOCIA		NC.				

Facility/Project Name: Oak Leaf Trail - Brown Deer Village Park Bridge Boring No.: B-3 License/Project/Monitoring No. : WI Unique Well No. : Page 2 of \_ Soil Properties Sample Length Att. & Recovered (in) Compressive Strength Depth in Feet Soil/Rock Description Blow Counts RQD/ Comments Plasticity Index Moisture Content And Geologic Origin For Well Diagram PID/FID Graphic Log USCS Liquid Limit Each Major Unit P 200 22.5 - 24.0 CLSecond 15.4 SAND (SW) - dense, gray, saturated, medium to fine 24.0 - 25.0 31 sw10 SS 18 sample has moisture SW grained sand content of 25.0 - 28.5 97.8 12 28 4.5 14.8 SILTY CLAY (CL) - hard, gray, 28.5 - 30.0 CL28 11 SS 18 moist 14.3 30.0 - 35.0 CL12 SS 18 35.0 - 36.0 End of borehole at 35 feet. Borehole abandoned with 3 sacks of chipped bentonite.

Sta	te of	Wise	consin		
De	partir	ient (	of Natu	ral Re	sources

## SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater Waste Management Remediation/Revelopment Other Comment Management Ma																					
					Rem	ediation/	Revelopme	ent 📙 (	Other [												
T	<i>1</i> 5. •			***												Page	[	_ of _			
Facilit Oal				n Deer '	Village l	Park			Lice	License/Permit/Monitoring Number Boring Number											
Boring	g Drille	ed By:					ast) and F	irm	Date	Date Drilling Started Date Drilling Completed Drilling Method											
First Name: K Last Name: H										07, 25, 2008				07 , 25 , 2008				1			
	Soils nique V				rvices, l Well II		m m	mm dd y y y y				mm dd y y y y				hollow stem auger					
	. —	· · · · · ·	···	DIVI	W CII II.	rinai	Final Static Water Level Feet MSL				Surface Elevation 647.78 Feet MSL				Borehole Diameter  8 inches						
Local	Grid C	rigin	☐ (es	stimateo	1: 🔘 )	or Bor	ing Location		<u></u>					Local Grid Location				Inches			
State Plane N, E  NW 1/4 of SE 1/4 of Section 2 , T 8 N, R 21 E										Lat				□N				ΠE			
										Long				Feet I S _				Feet W			
MILWAUKEE41_												Code   Civil Town/City/ or Village   Brown Deer									
Sam	ample 3														Soil	Prope	rties		, ,		
	Length Att. & Recovered (in)	ınts	Depth in Feet (Below ground surface)				k Descript							ပ္							
Number and Type	th A	Blow Counts	in ]		A		ogic Origir Major Unit			S	ور	Ę	B	Compressive Strength			ity		RQD/ Comments		
fum nd J	cco	low	cptl				, , , , , , , , , , , , , , , , , , ,	•		SC	Graphic Log	Well Diagram	PID/FID	npr Teng	Moisture Content	Liquid Limit	Plasticity Index	P 200	/QC mm		
<u>~ a</u>	<u> </u>	<u> </u>	L L		2.0	mornac				D	Gray	2 0	<u>a.</u>	රිශ්	≅೮	122	P H	Ъ	<b>జ</b> ర		
			F	0.0	- 2.0	fine gra	IL - loose, ined sand	, brown, n with some	noist, e clay	ТО				<u> </u>							
1 SS	6	6	$\mathbf{E}^2$	$\sqrt{2.0}$	o - 2.5 SILTY CLAY (CL) - medium to very stiff, brown to gray,					4	77			0.8	20.6						
			E	<u></u>			race grave		•	CL	12					1					
2 SS	1	6	<b>E</b> <sup>4</sup>	1	- 5.0							1		2.2	19.5	1					
3 SS	18	7	E	5.0,	- 7.5				,	CL	16	1		2	24.2						
			<b>E</b> 6																		
4 SS	18	7	E	<i>7</i> 7.5	- 10.0					d		1		2.5	18,7						
			F 8							CL	1//			1	10.7						
			E	<b> </b>							<i>V//</i>					1					
5 SS	16	7	E <sup>10</sup>	10.0	- 12.5					CL	199			2.1	26.5	]					
			<b>E</b>							-				Ì	,	ļ					
6 SS	18	6	E 12	J 12.5	- 15.0		,u			d	<i>111</i>	l		1.5	21.3	26	12	95.4			
			F.,	1						CL	1///	ļ						, , , ,			
7 SS	1.4		= 14	\							W//										
7 55	14	ľ	E 16	F 15.0	- 17.5	some fi	nd sand an	id gravel l	trom	CL	1/11			0.75	16.7						
			16																		
8 SS	18	9	E <sub>18</sub>	J 17.5	- 20.0					٧				0.9	18.4				Water at 19		
			E'°							CL	\///	-		1					feet		
9 SS	18	8	E <sub>20</sub>	/200	1 - 22 5	gravel	01 221			, l		1		1.3	16	1		:			
,			= ~	[ 20.0	, - 22.5	graver	11. 22			CL	1///			1.5	10						
			E 22								<i>\///</i>	1									
			E								111	1									
	L		<del>-</del> 24																		
I here	by cer	tify tl	hat the	inforr	nation	on this f	orm is tru	ie and co	rrect to	the bes	stofm	v kno	wleda	<u>.                                    </u>	<u> </u>		I	L	<u> </u>		
Signat	ure								Firm		- W				_				*		
											K. SINGH & ASSOCIATES, INC.										

Facility/Project Name: Oak Leaf Trail - Brown Deer Village Park Bridge Boring No. : B-4 License/Project/Monitoring No. : WI Unique Well No. : Page 2 of Sample Soil Properties એ.∄ Depth in Feet Blow Counts Soil/Rock Description Compressive Strength Length Att. ¿ Recovered (i And Geologic Origin For Moisture Content Plasticity Index Graphic Log Well Diagram PID/FID Each Major Unit Liquid Limit 22.5 - 23.0 23.0 - 25.0 CL SW SAND (SW) - loose, gray, saturated, fine sand 10 SS 12 19.7 25.0 - 28.0 SW 11 SS 18 12 28.0 - 30.0 SILTY CLAY (CL) - hard, gray, CL 4.5 16.1 moist alternating with layers of 12 SS 18 23 30.0 - 35.0 4.5 15.4 CLSecond sample has moisture content of 16.4% End of borehole at 35 feet. Borehole abandoned with 4 sacks 35.0 - 36.0 of bentonite chips.